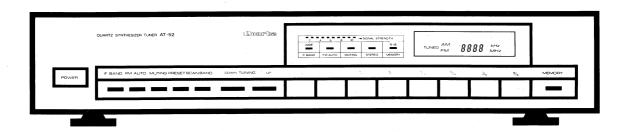
AKAI SERVICE MANUAL



QUARTZ SYNTHESIZER TUNER MODEL AT-52/L

SPECIFICATIONS

FM Tuner section	AM tuner section (MW	& LW for Al	Γ-52L)
Tuning frequency range		AM tuner Section	LW tuner Section
Usable sensitivity 11.2 dBf Quieting sensitivity		(MW for AT-52L	(for AT-52L)
(S/N = 50 dB)	Tuning frequency		
Capture ratio 1.5 dB Selectivity	range	531kHz to 1,602 kHz	160 kHz to 340 kHz
Narrow 90 dB	Usable sensitivity		
Wide 60 dB	(Loop antenna)	$400 \ \mu V/m$	$800 \mu V/m$
Image rejection 78 dB	Selectivity	50 dB	50 dB
IF rejection ratio 85 dB	Image rejection	40 dB	40 dB
Spurious rejection 90 dB	IF rejection	30 dB	30 dB
AM suppression, 60 dB	S/N	40 dB	35 dB
Sub carrier	T.H.D	1.0%	2.0%
suppression 60 dB	Output level		
S/N (IHF)	FM AM	700 mV (100%	Mod.)
Narrow 0.15% (Mono)/0.35% (Stereo)	(MW for AT-52L)	250 mV (30%	mod.)
Wide	Power requirements	Except UK	•
Narrow		240V, 50 Hz fo 110 - 120V/22	
Frequency response 30 Hz to 15 kHz \pm 1.0 dB		50/60 Hz conv countries	ertible for other
	Dimensions	$425(W) \times 85(1)$ (16.7 × 3.4 ×	H) × 335(D) mm 13.2 inches)
	Weight	4.0 kg (8.8 lbs)	•

^{*} For improvement purposes, specifications and design are subject to change without notice.

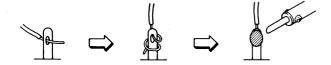
PRECAUTIONS DURING SERVICING

- 1. Parts identified by the A symbol are critical for safety. Replace only with parts number specified.
- 2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.

These must also be replaced only with specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing microswitch (especially in turntable)
- 5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- 9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 M ohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for $\boxed{\textbf{C}}$ or $\boxed{\textbf{A}}$, specified insulation resistance should be headphone jacks, line-in-out jacks, etc. more than 2.2 M ohms (ground terminals, microphone jacks).

PRECAUTION FOR THE LITHIUM BATTERY

The lithium battery may explode when heated excessively. [OBSERVE THE FOLLOWING WHEN REPLACING]

- Replace with the same make and type only.
- Use soldering iron in "recommended way" only.
- Place battery in correct polarity.
- Do not short the terminals.
- Do not recharge battery.
- Do not dispose of battery in fire.







[RECOMMENDED-WAY]

★INFORMATION

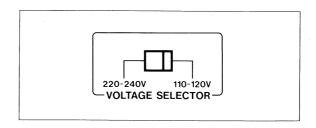
SYMBOL FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations
A	USA
В	UK
С	Canada
E	Europe (except UK)
J	Japan
S	Australia
V	W. Germany only
U	Universal Area
Y*	Custom version

VOLTAGE CONVERSION (U Model only)

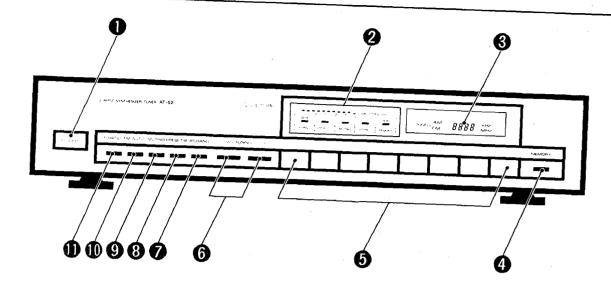
Before connecting the power cord, SET the VOLTAGE SELECTOR located on the rear panel with a screwdriver so that the correct voltagte is indicated.



ABBREVIATIONS (TUNER)

Abbreviation	Explanation	Abbreviation	Explanation
AFC	Auto Frequency Control	MEMO	MEMOry
AGC	Auto Gain Control	MI-COM	MIcro-COMputer
ALC	Auto Level Control	MIN	MINimum
AM	Amplitude Modulation	MIX	MIXing
AMP	AMPlifier	MPX	Multi PleX
ANT	ANTenna	MW	Medium Wave(frequency)
ВАТТ	BATTery	NC	No Connection
BLK	BLocK	NFB	Negative Feed Back
BUFF	BUFFer	OSC	OSCillator
COMP	COMParator	PCB	Printed Circuit Board
DET	DETect (DETctor)	PLL	Phase Locked Loop
FLD		Q.D	Quadrature Detector
FM	Frequency Modulation	Rch	Right channel
FREQ	FREQuency	REF	REFerence
GND	GrouND	REG	REGulator
Н	High	RF	Radio Frequency
HPF	High Pass Filter	SEG	SEGment
IF	Intermediate Frequency	SELE	SELEctor
IHF	Institut of High Fidelity	SENS	SENSitivity
IND	INDicator	SIG	SIGnal
I/O	In/Out	S/N	Signal to Noise Ratio
JW	Jumper Wire	SSG	Standard Signal Generator
L	Low	STD	STanDard
LCD	Liquid Crystal Display	SW	SWitch: Short Wave(frequency)
Lch	Left channel	THD	Total Harmonic Distortion
LED	Light Emitining Diode	TP	Test Point
LPF	Low Pass Filter	VCO	Voltage Controlled Oscillator
LW	Long Wave (Frequency)	VR	Variable Resistor
	·	X'TAL	Crystal

I. CONTROLS

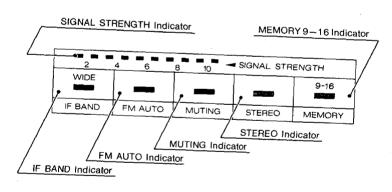


- POWER Switch
 To turn the power on and off.
- 2 LED (Light Emitting Diode) Indicators
 Tells you which mode the tuner is in.
- 3 FL (Fluorescent) Display Shows tuning information.
- 4 MEMORY button

 To memorize preset stations. Press the button once to preset station numbers 1 to 8. Press the button twice to preset station numbers 9 to 16.
- Preset Station Buttons (1 to 16) To memorize preset stations and tune in memorized stations.

- 6 TUNING Control buttons (UP/DOWN)
 To tune in a station manually.
- **BAND Button**To select the band.
- PRESET SCAN Button
 To select the preset scanning mode of the tuner.
- MUTING button To cut interstation noise during FM station tuning.
- FM AUTO button
 To select FM AUTO or monoaural mode.
- IF BAND Select button
 To select the wide or narrow FM IF (Intermediate Frequency) band.

LED Indicators



SIGNAL STRENGTH Indicators

Tells you the strength of the tuned in station's signal.

WIDE Indicator

Tells you the IF band of the tuner is set to WIDE.

MUTING Indicator

Tells you the muting system is engaged.

STEREO Indicator

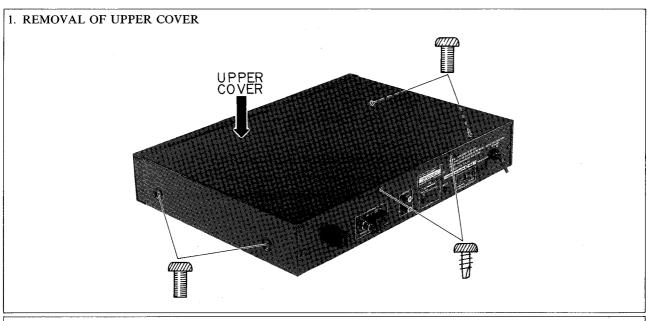
Tells you the received FM broadcast program is in the stereo mode.

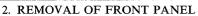
MEMORY 9-16 Indicator

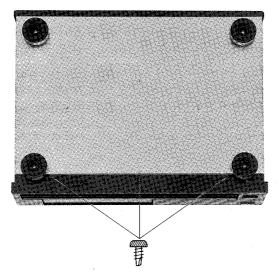
Tells you the preset station number is between 9 and 16.

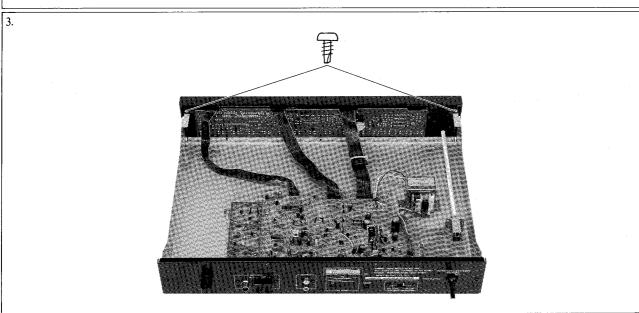
II. DISASSEMBLY

In case of trouble, etc, necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

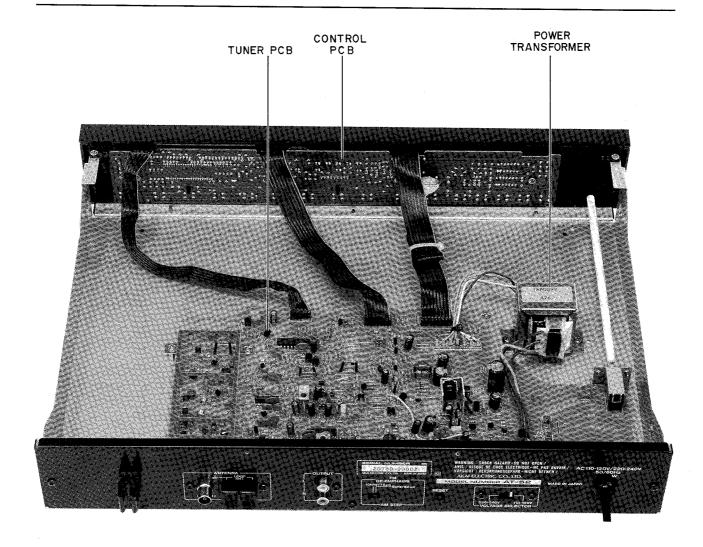








III. PRINCIPAL PARTS LOCATION



4-1. INSTRUMENT CONNECTIONS

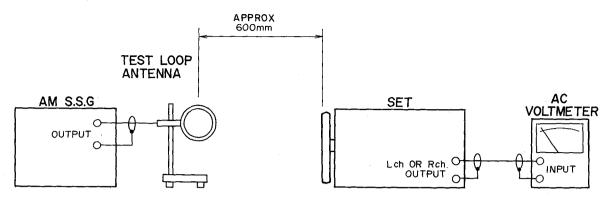


Fig. 4-1 Instrument Connection of AM Adjustment

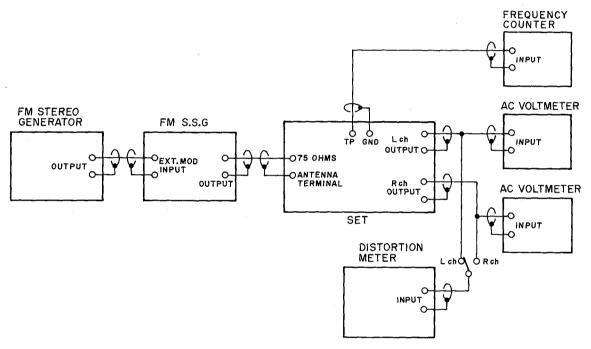


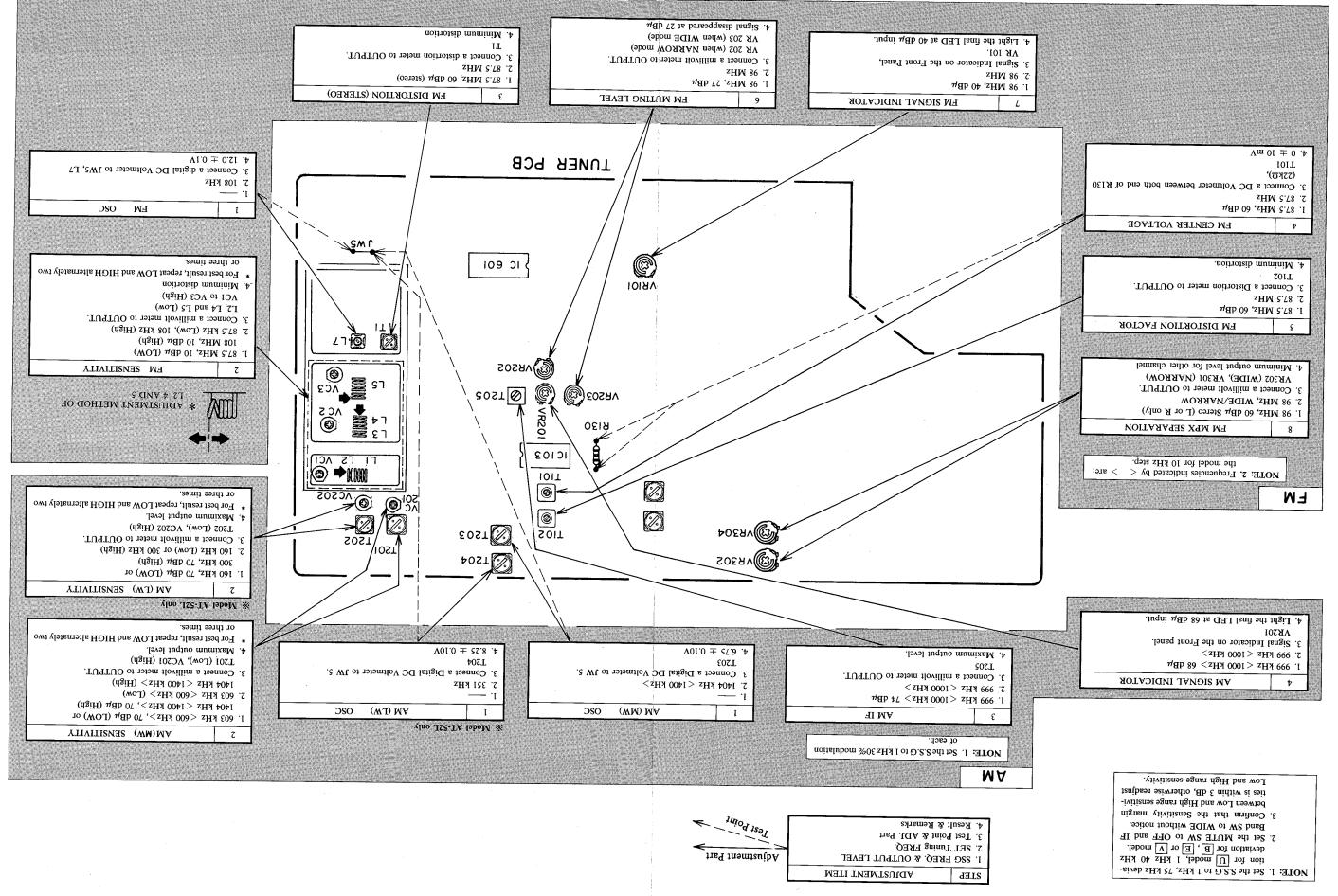
Fig. 4-2 Instrument Connection of FM Adjustment

4-2. HOW TO CALL THE PRESET FREQUENCY FOR THE ADJUSTMENT

Press the RESET SW on the REAR PANEL. The internal frequency preset memory is set as below.

	CH1	CH2	СНЗ	СН4	CH5	СН6	СН7	СН8
AT-52 <u>U</u> (10 kHz step)	AM 600 kHz	AM 1000 kHz	AM 1400 kHz	AM 1610 kHz	FM	FM	FM	FM
AT-52 E V (9 kHz step) AT-52L E B (9 kHz step)	AM 603 kHz	AM 999 kHz	AM 1404 kHz	AM 1602 kHz	ĺ	98.0 MHz	106.0 MHz	108.0 MHz

СН9	CH10	CH11	CH12	CH13	CH14	CH15	CH16
FM	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	FM	FM	FM	FM
87.5 MHz	AM 160 kHz	AM 200 kHz	AM 300 kHz	87.5 MHz	87.5 MHz	87.5 MHz	87.5 MHz



4-3. ADJUSTMENT

ск	ола дядов	2. P.C	STAA9 3AA9S	OWWENDED	1. REC
acitairoad	-14 Au-Q	-14 7-Q	25,71,2500	-14 70	- 14 3-Q
Description	Part No.	Ref. No.	Description	Part No.	Ref. No.
PC TUNER BLK AT-52(U)	L107127-A8	Αſ	TRANS POWER AT-52 (U)	L783127-T 8 *	l
PC TUNER BLK AT-52(E,B)	L207127-A8	81	[U] [T901] [B] U] (B) U] (B) T-52 \ L (B)	L28812√-T8*	7
[E,8]	6201121- ₽₫	a.	[B] [1301]	CC0017/-104	7
PC TUNER BLK AT-52(V)	L007127-A8	οι	TRANS POWER AT-52 / L(E,V)	*BT-721684	3
PC TUNER BLK AT-52L(E.B) [V]	L6691ST-A8	۵۱	D FED WbG676X GRN [E,V] [T901]	ED-721694J	Þ
[E,8]	0000131115		D FED bB292548 BED	ED-723951J	9
РС СОИТЯОL BLK AT-52	L473227-A8	7	D SIFICON DBB10C 500 \ 1.0A	*ED-342222	9
			D SILCON H DS448	*ED-301011	8 <i>L</i>
			D SILICON H GMA-01-FY2 F05	ED-344580 ED-301811	6 8
			D SIFICON H 185186	ED-31185	01
			D VARACTOR SVC211SPA A.B.C.D.E	ED-336832-A	l l
			D VARACTOR SVC3215PA C,D DBL	ED-323692-A	15
П	ER P.C BOA	NUT .E	D ZENEK H GZA12 X	ED-712926	13
			D ZENEK H GZ¥12 A	*ED-715992	τl
Description	Part No.	Ref. No.	D ZENER H GZA2.2 X	ED-721696J	91
			D ZENEB H GZA22 X	ED-721695J	. 91
C CE V F 103Z 250AC	*EC-350248	C801	D ZENEB H GZV2 1 X	ED-712000	۷۱
C CE V FZ 472P 400AC	*EC-338480	C813	D ZENER H GZA5.1 Y	ED-708046	18
C CE Λ Ε 103Σ 3Ε0 V C [Β'Ε'Λ]	ひとうひと ノラか	V 1 6 J	D ZENEB H GZA5.4 X	ED-712928	61
C CE V F 103Z 250AC	*EC-350248	C81¢	D ZENER H GZA9.1 X	ED-712927	50
[U] AARACTOR SVC211SPA A,B,C,D,E	ED-336832-A	DI	[B,E,V]	*EĿ326345	12
D VARACTOR SVC211SPA A,B,C,D,E	ED-339835-∀	D2	FUSE TSC A 250V 200MA	≮EE-308 33	22
D VARACTOR SVC211SPA A,B,C,D,E	ED-336832-∀	D3	[0]		
D VARACTOR SVC211SPA A.B.C.D.E	ED-336835-A	PQ	FILTER CE BFU450C4N 0.450MHZ	EH-344434	53
D SIFICON H GWA-01-FY2 F05	ED-344580	DIOI	FILTER CE SFE10.7MMKA 10.7MHZ	EH-316407	54
D SILICON H GMA-01-FY2 F05	ED-344580	D105	FILTER CE SFZ450A	EH-706132	52
D SILICON H GMA-01-FY2 F05	ED-344580	D103	FILTER LP 42B-1083-03	EH-721705J	76
D SILICON H GMA-01-FY2 F05	ED-344280	D104	FILTER LP 4285200-05	EH-721706J	77
D SILICON H GMA-01-FY2 F05	ED-344280	D102	IC A3048-714 AKAI COSTOM	El-328818	87
D SILICON H GMA-01-FY2 F05	ED-344280	D109	IC BA401	El-337964	55
D SILICON H GMA-01-FY2 F05	ED-344280	7010	IC BO4013B	El-366457	30
D SIFICON H DR448	ED-301911	D108	IC LA1266	El-719341	31
D SILICON H GMA-01-FY2 F05	ED-344580	D110	IC LA3410	EI-346963	35
D SILICON H GMA-01-FY2 F05	ED-344280	0110	IC TB1403	EI-342221	33
D SILICON H GMA-01-FY2 F05	ED-341783	DIII	IC LM7000N	El-324921	34
D AVBACTOR SVC3215PA C D DRI	ED-311782	D201	OSC CE CSB400P 0.40000MHZ	El-348409	3e 3e
D VARACTOR SVC321SPA C,D DBL	ED-323692-V	D503	OSC CE CSB¢20E11 0't290MHZ	El-349970	9E
D VARACTOR SVC321SPA C,D DBL	ED-323692-A	D203	OSC X'TAL HC-18/U 7.200MHZ	EI-344422	38 22
D SILICON H GMA-01-FY2 F05	ED-344280	D204	IND FL 8-BT-29ZK CHARACTER	EM-36300	38
D SIFICON H DEADAS	ED-301011	D301 D502	SW PUSH SDLD1P 01-1	*E2-337902	38
D SITICON H GWY-01-EX3 EUE	ED-301311		EW SI IDE OUTSOST 8 OT -S	₹ €€-370767	ΟV
D ZENEB H GZA9.1 X	ED-115851 ED-344580	D602 D601	SW SLIDE 00120319 01-2	*E2-346464	01⁄2
	ED-344280	D903	[U] [VOLTAGE SELECTOR]	ES-344436	ıv
D SILICON H GMA-01-FY2 F05	ED-344580	D801	[U] [DE-EMPHA / AM-STEP] SW SLIDE 00420451 2-04-02	604440-07	l t
D SIFICON H GWY-01-EAS E09	ED-344280	D807	SW TACT SKHHAK003A	ES-349367	45
D SIFICON D2132D 700 \ 1.0A	*ED-321124	D803	SW TACT SKHHLO	E2-1516881	£†
D SILICON DBB10C 200/1.0A	*ED-342222	D80 t	[RESET]	000017107	A :
D ZENEB H GZ V X	ED-712926	D802	TR FET 25K161 GR	ET-363326	カヤ
D ZENER H GZA22 X	ED-721695J	908G	TR FET 25K161 0,Y	ET-349449	94
D ZENEB H GZ Y 2.6 X	ED-712928	D807	TR FET 2SK246 GR	ET-337759	91
D ZENEB H GZA15 Y	*ED-112885	D808	TR FET 35K107 E,F AKAI	ET-337743	LΦ
D SENEB H GZ Y 21 X	ED-112000	D809	U,T,2 TfEfA2S AT	ET-353899	87
D ZENEK H GZA15 Y	*ED-715992	D810	[n]		
D SILICON H GMA-01-FY2 F05	ED-344280	1180	T,2 SE1 A25 AT	ET-349718	67
D ZENER H GZA5.1 Y	ED-708046	D812	TR 258808-V G,H	*E1-336997	20
D SILICON H GMA-01-FY2 F05	ED-344280	D813	TR 2SC2999 C,D	ET-336869	ίg
D SILICON H GMA-01-FY2 F05	ED-344280	4180	TR 25C3330 F05	ET-323898	25
D SILICON H GMA-01-FY2 F05	ED-344280	D812	TR 25C3383 S,T	ET-349081	23
FILTER CE SFE10.7MMKA 10.7MHZ FILTER CE SFE10.7MMKA 10.7MHZ	EH-31240\ EH-31240\	FL102 FL101	TR 2SC930 F	ET-338365	99 79
FILTER CE SFE10,7MMKA 10,7MHZ	EH-312407	FL103	TR 2501012-V G F05	ET-347961	99 99
FILTER CE SFE10.7MMKA 10.7MHZ	EH-312407	FL104	TR 25D1406 0,Y,GR	*EL-349469	2 <u>9</u>
FILTER LP 42B5200-05	EH-721706J	FL105	BATTERY LITHIUM BR2032-1HF	*EZ-328816	89
FILTER CE SFZ450A	EH-706132	FL201			
FILTER CE BFU450C4N 0.450MHZ	EH-344434	FL202			
FILTER LP 42B-1083-03	EH-721705J	FF301			
FILTER LP 428-1083-03	EH-721705J	£Г305			
IC BA401	El-337964	10101			
IC BP401	El-337964	10102			
IC LA 1266	El-719341	10303			
IC F∀3 + 10	El-346663	IC301			

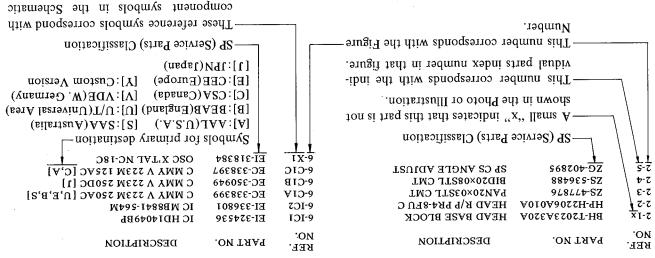
ATTENTION

- If not, a part different from the one you ordered may be delivered. 2. Please make sure that Part No. is correct when ordering. Otherwise, the non-delivery of the part or the delivery of a wrong part may result. I. When placing an order for parts, be sure to list Part No., Model No. and the description of each part.
- please use this Parts List for all future reference. 3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes,

HOW TO USE THIS PARTS LIST

- 2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked. 1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the Parts List.

PART NO. DESCRIPTION PART NO. DESCRIPTION 7. HEAD BASE BLOCK 6. MAIN PC BOARD a) Mechanism Block b) PC Board



by its Reference No. listed at right of Part No. 5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List The available PC Board Blocks are listed separately.

MYBNING

CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS. Δ (*) Indicates safety critical components. For continued safety, replace safety

VAERTISSEMENT

DE SECURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE Δ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ

Ref. No.	Part No.	Description
IC601	El-354951	IC LM7000N
J101	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P [ANTENNA]
J301	EJ-719343	PIN J YKC21-0048A 2P
1.4	50.240461	[OUT PUT]
L1 L2	EO-349461	COIL FIX 2 LINK COIL FIX 2 U147
L2 L3	EO-349462 EO-349461	COIL FIX 2 0147
L4	EO-349462	COIL FIX 2 U147
L5	EO-349462	COIL FIX 2 U147
L6	EO-721689J	COIL FIX 1 LF-75 2R2K
L7	EO-349446	COIL OSC 2 TFE2-OSC-U
L801	EO-338409	COIL LF FKOB160MH02 250UH
R303	*ER-324337	R CB H S10 FS RDS 1/4W 560J
R304	*ER-324337	R CB H S10 FS RDS 1/4W 560J
R622	*ER-322787	R CB H S10 FS RDS 1/4W 100J
R624	*ER-306805	R CB H S15 FS RDS 1/2W 101J
R801	*ER-200940	R CB H S10 FS RDS 1/4W 561J
R806	*ER-324184	R CB H S10 FS RDS 1/4W 121J
R812	*ER-322421	R CB H S10 FS RDS 1/4W 820J
SW201	ES-721688J	SW TACT SKHHLQ
		[RESET]
SW202	ES-344439	SW SLIDE 00420451 2-04-02 [U] [DE-EMPHA/AM-STEP]
SW801	*ES-337902	SW PUSH SDLD1P 01-1
	7.20 007.002	[POWER]
SW901	*ES-349464	SW SLIDE 00120319 01-2
		[U] [VOLTAGE SELECTOR]
TR1	ET-337743	TR FET 3SK107 E,F AKAI
TR2	ET-336869	TR 2SC2999 C,D
TR3	ET-328265	TR 2SC930 F
TR4	ET-349449	TR FET 2SK161 O,Y
TR101	ET-328265	TR 2SC930 F
TR102	ET-349449	TR FET 2SK161 O.Y
TR103	ET-328265	TR 2SC930 F
TR104	ET-353898	TR 2SC3330 F05
TR105	ET-353898	TR 2SC3330 F05
TR106	ET-353898	TR 2SC3330 F05
TR107	ET-349081	TR 2SC3383 S,T
TR108	≭ET-336997	TR 2SB808-V G,H
TR109	ET-349718	TR 2SA1392 S,T
TR110	ET-349081	TR 2SC3383 S,T
TR111	ET-353898	TR 2SC3330 F05
TR112	ET-353898	TR 2SC3330 F05
TR113	ET-349081	TR 2SC3383 S,T
TR114	ET-353899	[V] TR 2SA1317 S,T,U
	21 000000	[U]
TR201	ET-363326	TR FET 2SK161 GR
TR202	ET-349081	TR 2SC3383 S,T
TR203	ET-353898	TR 2SC3330 F05
TR204	ET-353898	TR 2SC3330 F05
TR205	ET-353898	TR 2SC3330 F05
TR301	ET-353898	TR 2SC3330 F05
TR302	ET-353898	TR 2SC3330 F05
TR303	ET-347961	TR 2SD1012-V G F05
TR304	ET-347961	TR 2SD1012-V G F05
TR601	ET-336997	TR 2SB808-V G,H
TR602	ET-353898	TR 2SC3330 F05
TR603	ET-336997	TR 2SB808-V G,H
TR604	ET-353898	TR 2SC3330 F05
TR605	ET-349081	TR 2SC3383 S,T
TR606	ET-337759	TR FET 2SK246 GR
TR607	ET-353898	TR 2SC3330 F05
TR608	ET-353898	TR 2SC3330 F05
TR609	ET-336997	TR 2SB808-V G,H
TR610	ET-336997	TR 2SB808-V G,H
TR801	ET-349081	TR 2SC3383 S,T
TR802	ET-349718	TR 2SA1392 S,T
TR803	ET-337759	TR FET 2SK246 GR
TR804	*ET-349459	TR 2SD1406 O,Y,GR
TR805	ET-353899	TR 2SA1317 S,T,U
TR806	ET-353899	TR 2SA1317 S,T,U
T1	EO-337640	COIL IFT 119AC-15533X 10.7MHZ
T101	EO-721703J	COIL 78-5016-01
T102	EO-721704J	COIL 78-5017-01
T201	EO-337598	COIL VARI 2 25A-1353-01
T202	EO-337599	COIL VARI 2 25A-1354-03
T203	EO-721691J	COIL A7NRS-9857X

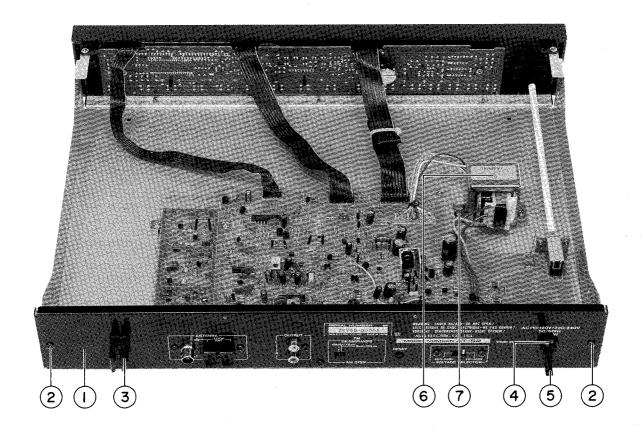
Ref. No.	. Part No.	Description
T204	EO-352089	COIL OSC 2 7BRS-9098X 580.0UH
T205	EO-721692J	COIL AM 123060
VC1	EC-721690J	C TRIMER TZ03Z100FR169
VC2	EC-721690J	C TRIMER TZ03Z100FR169
VC3	EC-721690J	C TRIMER TZ03Z100FR169
VC201	EC-721707J	C TRIMER TZ03R300FR169
VC202	EC-721707J	C TRIMER TZ03R300FR169
VR101	EV-353425	R S-FIX H RVF6P01 0.10W 103
VR201	EV-353558	R S-F ₁ X H RVF6P01 0.10W 203
VR202	EV-371224	R S-FIX H RVF6P01 0.10W 303
VR203	EV-371224	R S-FIX H RVF6P01 0.10W 303
VR301	EV-371227	R S-FIX H RVF6P01 0.10W 304
VR302	EV-371227	R S-FIX H RVF6P01 0.10W 304
X301	El-349970	OSC CE CSB456F11 0.456MHZ
X601	El-344422	OSC X'TAL HC-18/U 7.200MHZ
F801	*EF-359342	FUSE BET T 250V 400MA
		[B,E,V]
F802	≭ EF-359342	FUSE BET T 250V 400MA
		[B,E,V]
F803	*EF-359342	FUSE BET T 250V 400MA
		[B,E,V]
F901	*EF-308933	FUSE TSC A 250V 200MA
		[U]

4. CONTROL P.C BOARD

Ref. No.	Part No.	Description
BT501	*EZ-358816	BATTERY LITHIUM BR2032-1HF
D501	ED-721694J	D LED MPG576X GRN
D502	ED-721694J	D LED MPG576X GRN
D503	ED-721695J	D ZENER H GZA22 X
D505	ED-721694J	D LED MPG576X GRN
D506	ED-723951J	D LED PR5524S RED
D507	ED-723951J	D LED PR5524S RED
D509	ED-721696J	D ZENER H GZA2.2 X
D510	ED-301911	D SILICON H DS448
D511	ED-301911	D SILICON H DS448
D512	ED-301911	D SILICON H DS448
D513	ED-301911	D SILICON H DS448
D514	ED-344280	D SILICON H GMA-01-FY2 F05
D515	ED-344280	D SILICON H GMA-01-FY2 F05
D516	ED-344280	D SILICON H GMA-01-FY2 F05
D517	ED-344280	D SILICON H GMA-01-FY2 F05
D518	ED-344280	D SILICON H GMA-01-FY2 F05
D519	ED-344280	D SILICON H GMA-01-FY2 F05
D520	ED-344280	D SILICON H GMA-01-FY2 F05
D521	ED-344280	D SILICON H GMA-01-FY2 F05
D522	ED-721694J	D LED MPG576X GRN
D523	ED-721694J	D LED MPG576X GRN
D524	ED-721694J	D LED MPG576X GRN
D525	ED-721694J	D LED MPG576X GRN
D526	ED-721694J	D LED MPG576X GRN
IB501	EH-355260	COMP R RGLD12X104J
IB502	EH-359120	COMP R RGLD4X104J
IC501	El-356457	IC BU4013B
IC502	El-356457	IC BU4013B
IC503	El-358818	IC A3048-714 AKAI COSTOM
IC504	EJ-345551	IC LB1403
SW501	ES-349367	SW TACT SKHHAK003A
SW502	ES-349367	SW TACT SKHHAK003A
SW503	ES-349367	SW TACT SKHHAK003A
SW504	ES-349367	SW TACT SKHHAK003A
SW505	ES-349367	SW TACT SKHHAK003A
SW506	ES-349367	SW TACT SKHHAKOO3A
SW507	ES-349367	SW TACT SKHHAK003A
SW508	ES-349367	SW TACT SKHHAK003A
SW509	ES-349367	SW TACT SKHHAKOO3A
SW510	ES-349367	SW TACT SKHHAK003A
SW511	ES-349367	SW TACT SKHHAK003A
SW512	ES-349367	SW TACT SKHHAK003A
SW513	ES-349367	SW TACT SKHHAK003A
SW514	ES-349367	SW TACT SKHHAK003A

Ref. No.	Part No.	Description
SW515	ES-349367	SW TACT SKHHAK003A
SW516	ES-349367	SW TACT SKHHAK003A
TN501	EM-353670	IND FL 8-BT-29ZK CHARACTER
TR501	ET-353898	TR 2SC3330 F05
TR502	ET-349592	TR 2SC3400 F05
TR503	ET-353898	TR 2SC3330 F05
TR504	ET-349592	TR 2SC3400 F05
TR505	ET-353898	TR 2SC3330 F05
TR506	ET-353898	TR 2SC3330 F05
TR507	ET-349718	TR 2SA1392 S,T
TR508	ET-353898	TR 2SC3330 F05
TR509	ET-349718	TR 2SA1392 S.T
		[U]
X501	El-348409	OSC CE CSB400P 0.400000MHZ

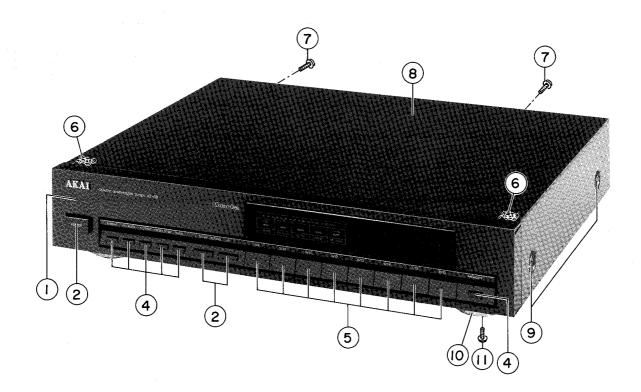
ASSEMBLY BLOCK



5. ASSEMBLY BLOCK

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1A	SP-721712J	PANEL REAR AT-52 (U) [U]	5A	*EW-359448	AC CORD 2C KP700A,VFF-CB U/T
1B	SP-721257	PANEL REAR AT-52(E,V) [E,V]	5C	≭ EW-355033	AC CORD 2 CORES KP-419C, LTCE- [E,V]
1C	SP-721244	PANEL REAR AT-52L (B) [B]	5E	∗ EW-355034	AC CORD 2 CORES LTBS-2F-CB B [B]
1D	SP-721256	PANEL REAR AT-52L (E) [E]	6A	*BT-721687J	TRANS POWER AT-52 (U) [U] [T901]
2 3	ZS-308846 SZ-362273	T2BR30X08STL BZN PROJECTION HOLDER ANTENNA (2)	6B	* BT-721684J	TRANS POWER AT-52 / L(E,V) [E,V] [T901]
4A	*EZ-345815	STOPPER CORD CM-22A	6C	*BT-721685J	TRANS POWER AT-52 / L (B) [B] [T901]
4B	*EZ-345816	STOPPER CORD CM-22B [E,V]	7	ZS-315511	ST PAN30X06STL CMT CUP
4C	*EZ-357913	STOPPER CORD CM-22C [B]			

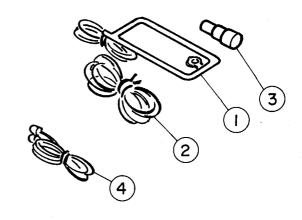
FINAL ASSEMBLY BLOCK



6. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1A-G	BD-721253	PANEL FRONT BLK AT-52-G
1A-B	BD-721252	PANEL FRONT BLK AT-52-B
1B-B	BD-721716J	PANEL FRONT BLK AT-52L-B
2-G	SK-373236A	KNOB POWER-G
2-B	SK-373236B	KNOB POWER-B
3-G	SK-721250	KNOB TUNING-G
3-B	SK-721249	KNOB TUNING-B
4-G	SK-368675A	KNOB BAND G
4-B	SK-368675B	KNOB BAND B
5-G	SK-721262	KNOB PUSH-G
5-B	SK-721261	KNOB PUSH-B
6	ZS-447840	T2BR30X08STL CMT
7	ZS-463353	T2BR30X08STL BNI
8-G	SP-368689A	COVER UPPER-G
8-B	SP-368689B	COVER UPPER-B
9-G	ZS-341959	ST BID40X06STL NI3
9-B	ZS-341960	ST BID40X06STL BNI
10	SA-379375	FOOT(N)
11	ZS-331567	T2BR30X08STL CMT C080

ACCESSORY



7. ACCESSORY

Ref. No.	Part No.	Description
1	EE-359265	ANT LOOP LA-200A-A
2	EE-315329	ANT DIPOLE SAE-010
3	EJ-352118	SOCKET COAX PAL B2-714P-900
4	EW-344151	CORD RR-61A PINX2-PINX2

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Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
BA-721699J	1 D	ED-712928	19	EO-349462	L2	ET-349718	TR509
BA-721700J	1C	ED-712928	D807	EO-349462	L4	ET-353898	52
BA-721701J	1A	ED-715992	14	EO-349462	L5	ET-353898	TR104
BA-721702J	1B	ED-715992	D808	EO-352089	T204	ET-353898	TR105
BA-7217023 BA-722674J	2	ED-715992	D810	EO-332089 EO-721689J	L6	ET-353898	TR106
BD-721252	1 A-B	ED-713992	4	EO-7216893		1	
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BD-721253	1A-G	ED-721694J	D501	EO-721692J	T205	ET-353898	TR112
BD-721716J	1B-B	ED-721694J	D502	EO-721703J	T101	ET-353898	TR203
BT-721684J	3	ED-721694J	D505	EO-721704J	T102	ET-353898	TR204
BT-721684J	6B	ED-721694J	D522	ER-200940	R801	ET-353898	TR205
BT-721685J	2	ED-721694J	D523	ER-306805	R624	ET-353898	TR301
BT-721685J	6C	ED-721694J	D524	ER-322421	R812	ET-353898	TR302
BT-721687J	1	ED-721694J	D525	ER-322787	R622	ET-353898	TR602
BT-721687J	6A	ED-721694J	D526	ER-324184	R806	ET-353898	TR604
EC-320548	C801	ED-721695J	16	ER-324337	R303	ET-353898	TR607
EC-320548	C814	ED-721695J	D806	ER-324337	R304	ET-353898	TR608
EC-338496	C813	ED-721695J	D503	ES-337902	39	ET-353898	TR501
EC-721690J	VC1	ED-721696J	15	ES-337902	SW801	ET-353898	TR503
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ED-344280	D109	EH-721705J	FL301	ET-328265	TR3	SA-379375	10
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ED-344280	D811	El-345551	33	ET-336997	TR609	SP-368689A	8-G
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ED-353692-A	D202	El-719341	31	ET-349081	TR605	1	
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ED-357754	7	EJ-352118	3	ET-349449	45		
ED-357754	D803	EJ-359031	J101	ET-349449	TR4		
ED-371782	10	EJ-719343	J301	ET-349449	TR102		
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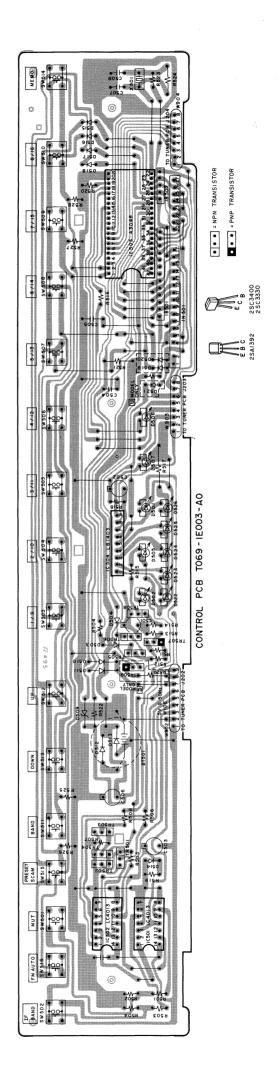
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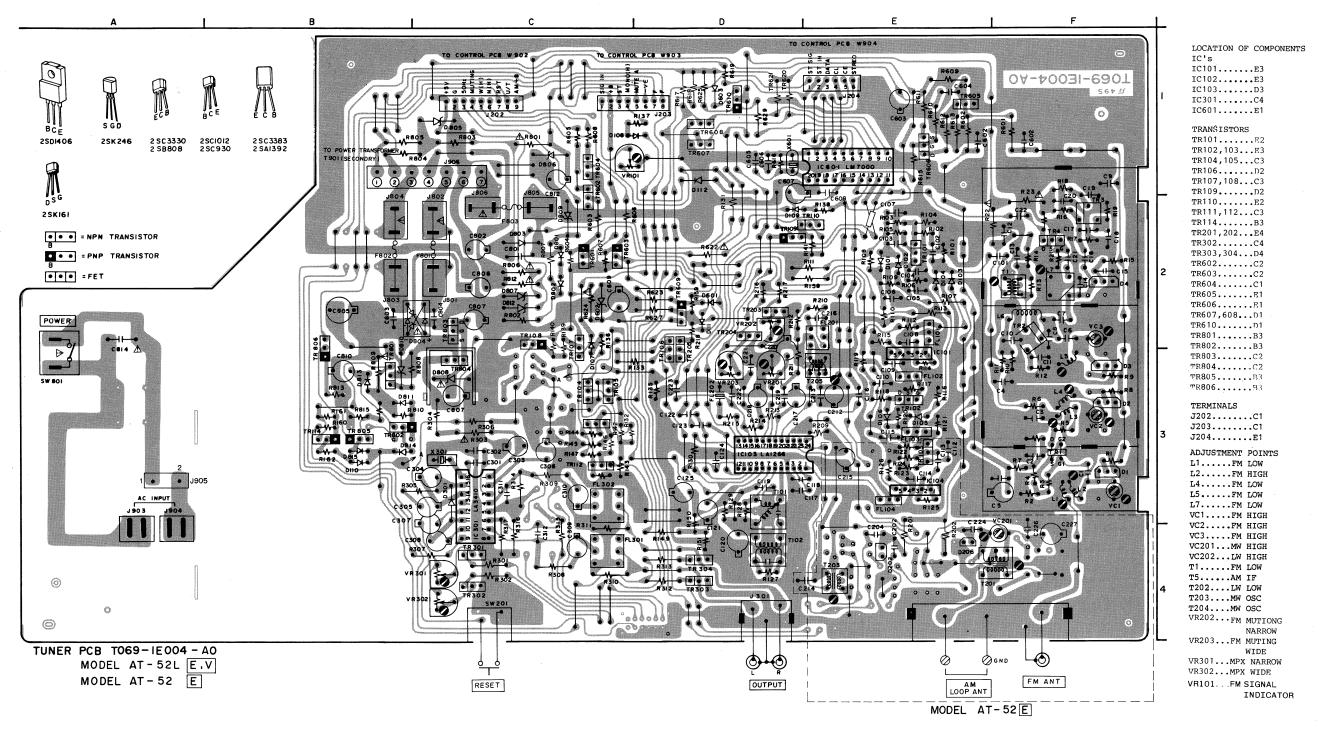
MODEL AT-52/L

SCHEMATIC DIAGRAM AND PC BOARDS

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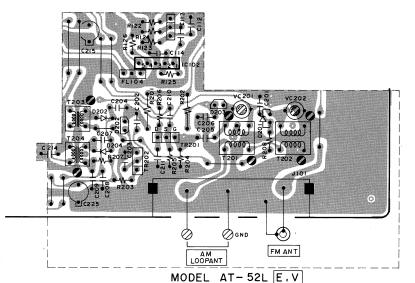
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2.	TUNER P.C.B.
3.	SCHEMATIC DIAGRAM
4	BLOCK DIAGRAM

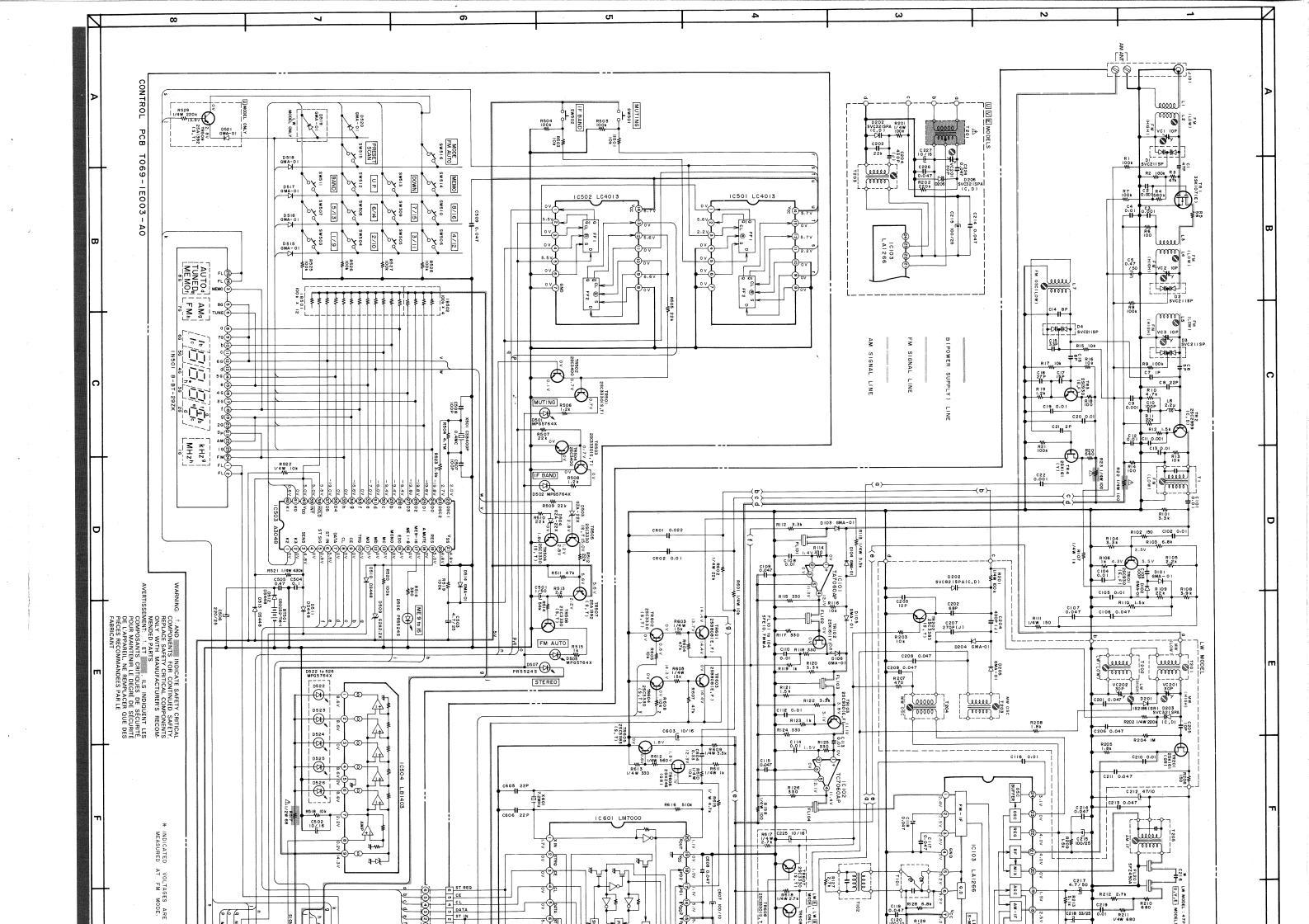


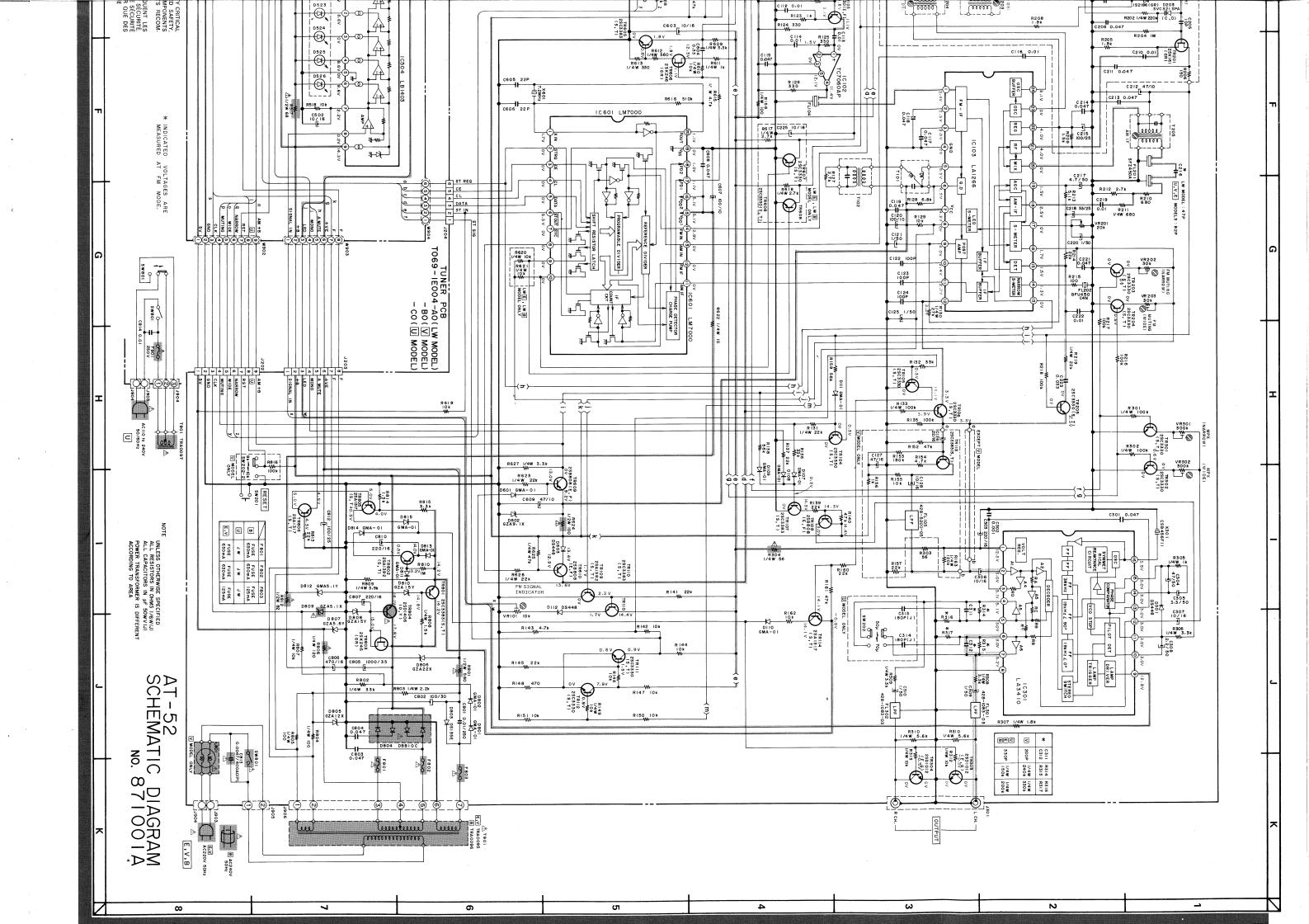


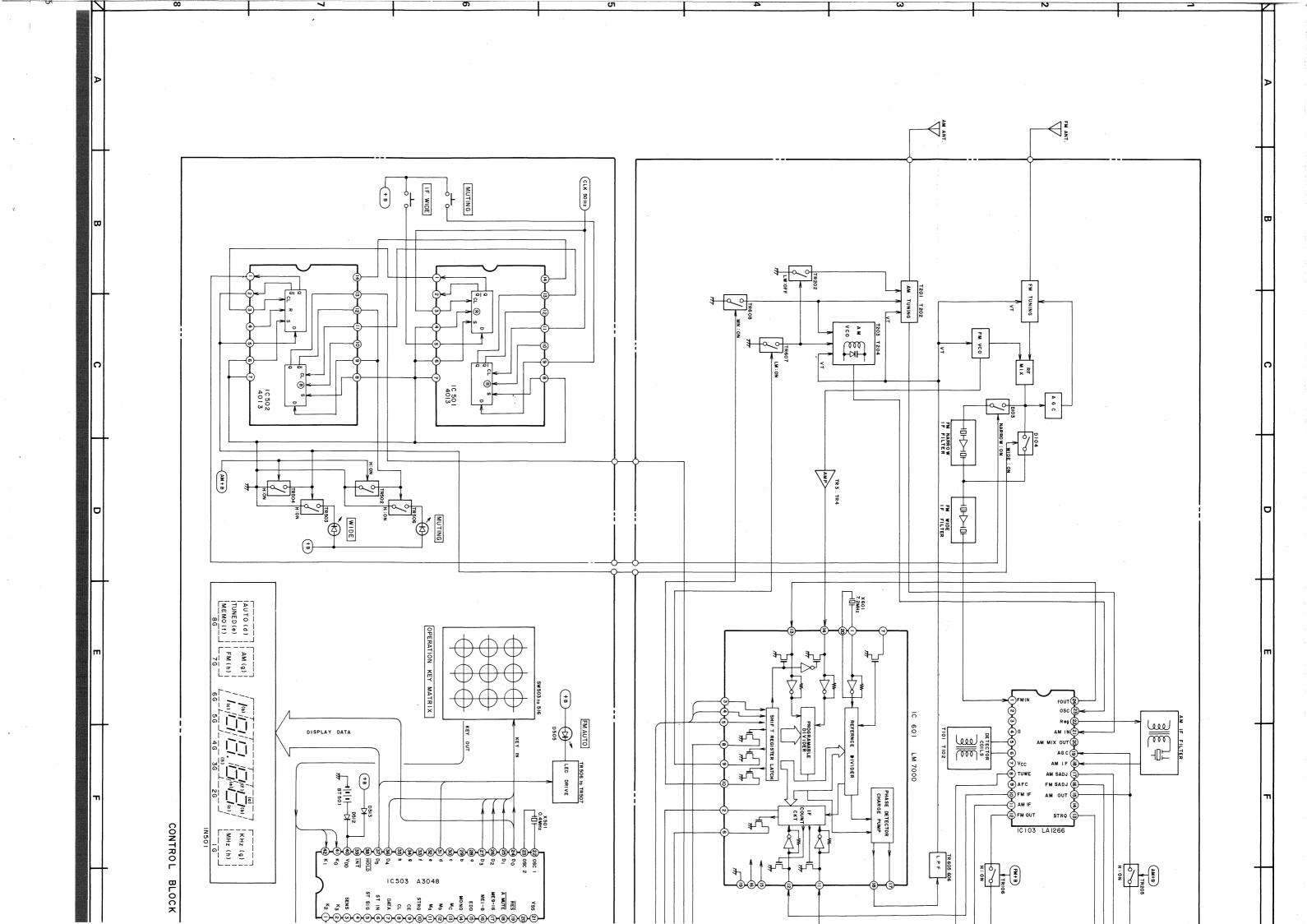
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REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

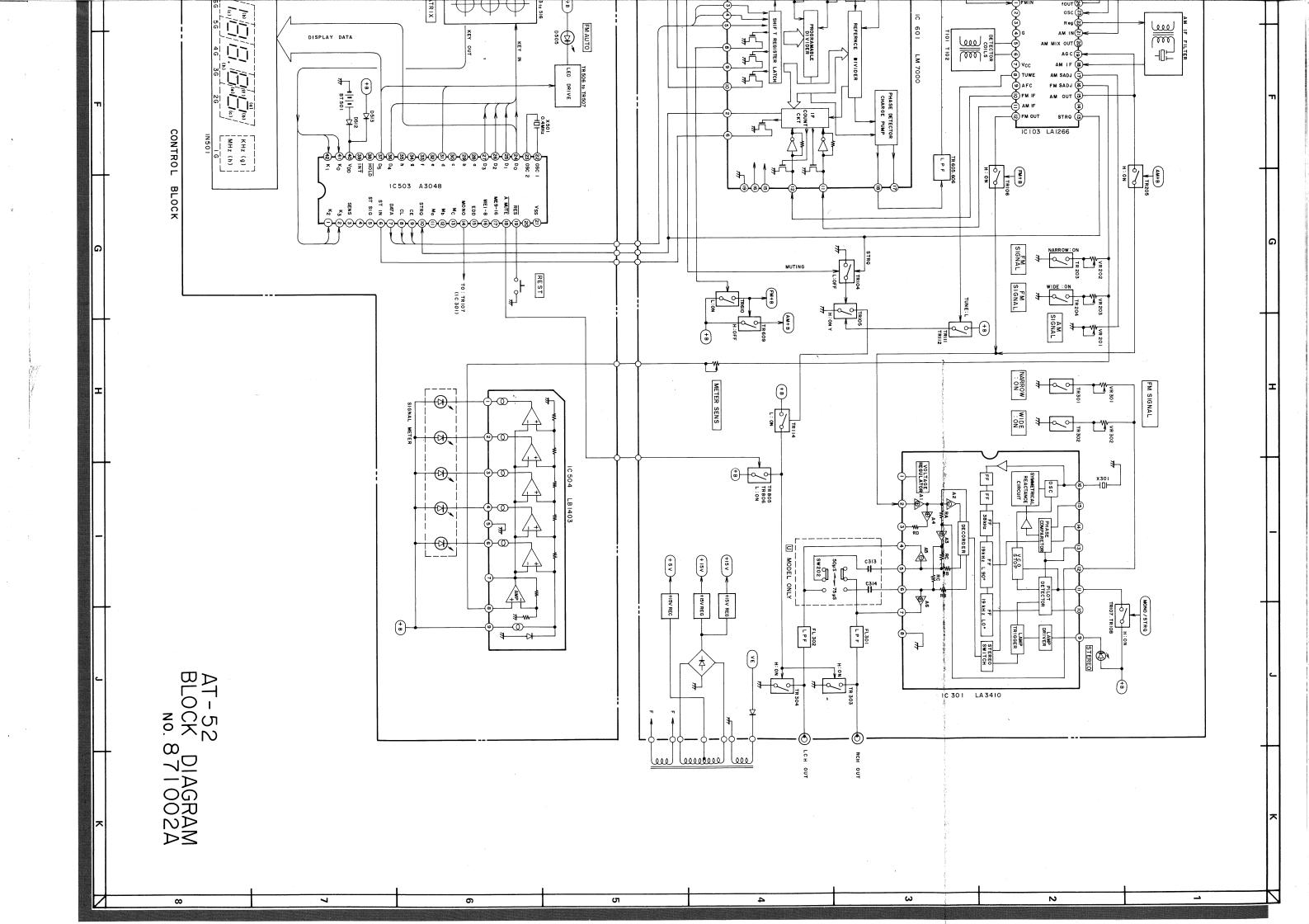
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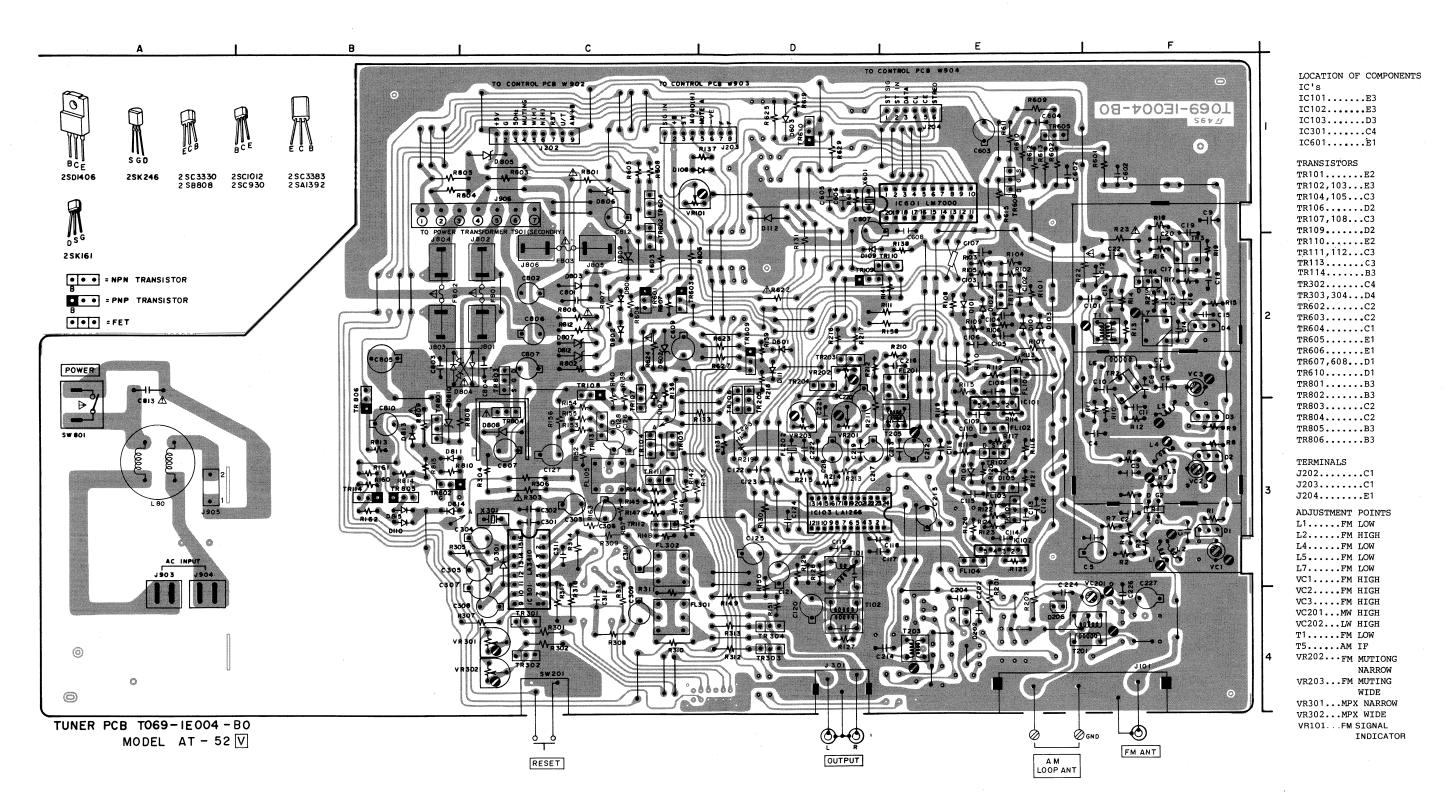






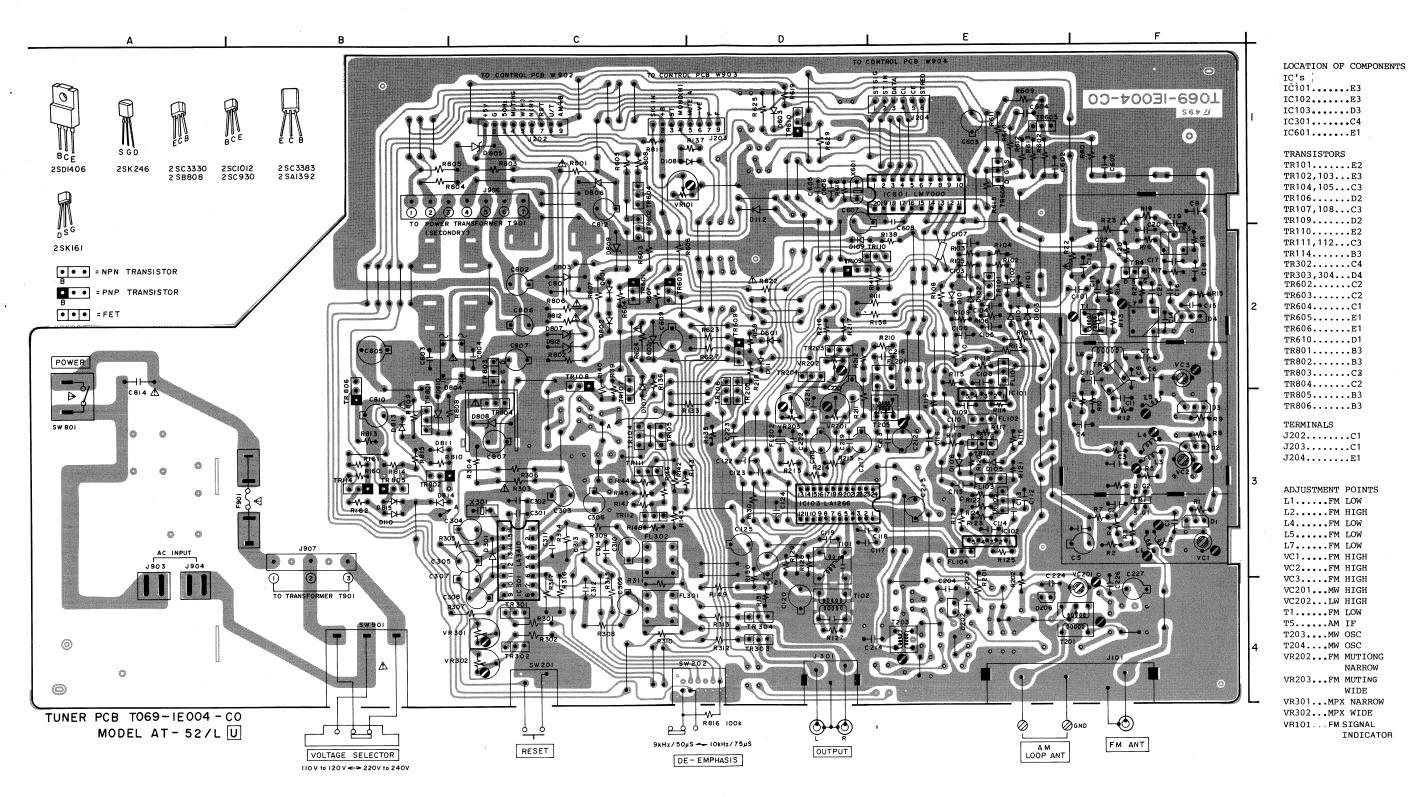






WARNING: △INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: △IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRE DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT



WARNING: △INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ÁJL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT